8

9

10

11

12

13

14

15

1 2

3

4

1

2

4

1

2

3

4

WHAT IS CLAIMED IS:

,	1. A game and home entertainment device remote control sys	stem
comprising:		

a remote control having a touch pad, the touch pad generating a touch pad signal in response to a gesture on the touch pad;

a display screen having a display area; and

a controller in communication with the touch pad and the display screen, the controller operative to:

receive the touch pad signal,

determine whether the touch pad signal is for controlling a game or for controlling a home entertainment device,

if the touch pad signal is for controlling a game, perform a game activity in response to the touch pad signal and cause a result of the game activity to be displayed on the display screen, and

if the touch pad signal is for controlling a home entertainment device, enable a home entertainment device control function.

- 2. A game and home entertainment device remote control system as in claim 1 wherein the display screen is mapped to the touch pad so that the gesture on the touch pad is scaled correspondingly to an appropriate region of the display screen.
- 3. A game and home entertainment device remote control system as in claim 1 wherein the display screen displays a moveable object, the controller further operative to proportionately position the moveable object on the display screen corresponding to a location touched on the touch pad.
- 4. A game and home entertainment device remote control system as in claim 1 wherein the touch pad is logically divided into a plurality of regions, each region corresponding to one of a plurality of selectable items displayed on the display screen.

1.

1 .	5. A game and home entertainment device remote control system
2	as in claim 1 wherein the touch pad is divided into a plurality of regions, the
3	controller further operative to interpret at least one gesture in one of the plurality
4	of regions differently than the at least one gesture is interpreted in another of the
5	plurality of regions.
1	6. A game and home entertainment device yemote control system
2	as in claim 1 wherein the controller is operative to interpret at least one gesture or
3	the touch pad based on at least one parameter programmed by a user of the system.

- 7. A game and home entertainment device remote control system as in claim 1 wherein the controller is further operative to adapt the operation of the touch pad to at least one operator idiosyncrasy.
- 8. A game and home entertainment device remote control system as in claim 1 wherein the system offers a plurality of games, the controller further operative to vary the functioning of the touch pad to fit each of the plurality of games.
- 9. A game and home entertainment device remote control system as in claim 1 wherein the controller is further operative to vary the functioning of the touch pad to fit each of a plurality of scenarios in at least one game.
- 10. A game and home entertainment device remote control system as in claim 1 wherein at least one gesture associated with at least one game may be taught to the controller by a user of the system.
- 11. A game and home entertainment device remote control system as in claim 1 wherein the controller is further operative to associate a sequence of game control options in at least one game with a gesture on the touch pad.

one acceleration control gesture.

1	12. A game and home entertainment device remote control system
2	as in claim 1 wherein the controller is further operative to associate at least one
3	gesture with a particular user of the system.
1	13. A game and home entertainment device remote control system
2	as in claim 1 wherein the gesture is one of a plurality of gestures comprising at least
3	one simple linear movement.
1	14. A game and home entertainment device remote control system
2	as in claim 1 wherein the gesture is one of a plurality of gestures comprising at least
3	one free floating input.
1	15. A game and home entertainment device remote control system
2 .	as in claim 1 wherein the gesture is one of a plurality of gestures comprising at least
3 .	one gesture that is pad-to-screen mapped.
1	16. A game and home entertainment device remote control system
2	as in claim 1 wherein the gesture is one of a plurality of gestures comprising at least
3	one pressure sensitive gesture.
1	17. A game and home entertainment device remote control system
2	as in claim 1 wherein the gesture is one of a plurality of gestures comprising at least
3	one rotational control gesture.
1	18. A game and home entertainment device remote control system
2	as in claim 1 wherein the gesture is one of a plurality of gestures comprising at least
3	one velocity control gesture.
1	19. A game and home entertainment device remote control system
2	as in claim 1 wherein the gesture is one of a plurality of gestures comprising at least

1	20. A game and home entertainment device remote control system	
2	as in claim 1 wherein the gesture is one of a plurality of gestures comprising at leas	
3	one alphanumeric character entry gesture.	
1	21. A game and home entertainment device remote control system	
2	as in claim 1 wherein the gesture is one of a plurality of gestures comprising at least	
3	one complex gesture, the complex gesture having at least two elements from a set	
4	consisting of straight line movements, taps, holds and circular movements.	
1	22. A game and home entertainment device remote control system	
2	as in claim 1 wherein the touch pad is physically divided into a plurality of regions.	
1	23. A game and home entertainment device remote control system	
2	as in claim 1 wherein the controller determines whether the touch pad signal is for	
3	controlling a game or for controlling a home entertainment device based on a signal	
4	previously received from the remote control.	
1	24. A game and home entertainment device remote control system	
2	as in claim 1 wherein at least a portion of the display area is mapped to the touch	
3	pad.	
1	25. A game and home entertainment device remote control system	
2	as in claim 1 wherein the remote control comprises a trigger switch.	
1	26. A remote control for controlling a home entertainment device	
2	and for playing on-screen games in conjunction with a display screen, the remote	
3	control comprising:	
4	a touch pad generating touch pad signals in response to user contact	
5	with the touch pad; and	
6	a controller in communication with the touch pad, the home	
7	entertainment device and the display screen, the controller mapping at least a portion	
8	of the display screen to a surface area of the touch pad, the controller moving an	

object on the display screen to a location on the display screen corresponding to a

10	touched location on the touch pad surface area for playing at least one on-screen	
11	game, the controller further recognizing gestures for controlling the home	
12	entertainment device.	
1	27. A remote control for a home entertainment device comprising	
2	a touch pad generating touch pad signals in response to user contact	
3	with the touch pad; and	
4	a controller in communication with the touch pad, the home	
5	entertainment device and the display screen, the controller mapping at least a portion	
6	of the display screen to a surface area of the touch pad, the controller moving an	
7	object on the display screen to a location on the display/screen corresponding to a	
8	touched location on the touch pad surface area for playing at least one on-screen	
9	game.	
1	28. A remote control for controlling a home entertainment device	
2	and for playing on-screen games in conjunction with a display screen, the remote	
3	control comprising:	
4	a touch pad generating touch pad signals in response to user contact	
5	with the touch pad; and	
6	a controller in communication with the touch pad, the home	
7	entertainment device and the display screen, the controller recognizing gestures	
8	made on the touch pad for playing at least one game and displaying results of	
9	recognizing each gesture on the display screen, the controller further recognizing	
10	gestures made on the touch pad for controlling the home entertainment device.	
1	29. A method of remotely controlling a home entertainment device	
2	comprising:	
3	receiving at least one gesture on a touch pad, the touch pad remote	
4	from the hame entertainment devices	

controlling the home entertainment device or for playing a game;

determining whether the at least one received gesture was made for

3

7	if the at least one gesture was made for controlling/the home	
8	entertainment device, generating at least one control signal for the home	
9	entertainment device based on the at least one received gesture; and	
10	if the at least one gesture was made for playing a game, performing	
11	a game activity based on the at least one received gesture and displaying the result	
12	of the performed game activity on a display screen.	
1	30. A method of remotely controlling a home entertainment device	
2	as in claim 29 wherein the touch pad is part of a remote control device.	
1	31. A method of remotely controlling a home entertainment device	
2	as in claim 30 wherein the determination of whether the at least one received gesture	
3	was made for controlling the home entertainment device or for playing the game is	
4	based on at least one input previously received from the remote control.	
1	32. A method of remotely controlling a home entertainment device	
2	as in claim 29 further comprising the mapping at least a portion of the display screen	
3	to the touch pad so that the at least one gesture received on the touch pad is scaled	
4	correspondingly to the at least a portion of the display screen.	
1	33. A method of remotely controlling a home entertainment device	
2	as in claim 29 further comprising logically dividing the touch pad into a plurality of	
3	regions, each region corresponding to one of a plurality of selectable items displayed	
4	on the display screen.	
1	34. A method of remotely controlling a home entertainment device	
2	as in claim 29 further comprising dividing the touch pad into a plurality of regions	
3	and interpreting at least one gesture in one of the plurality of regions differently than	
4	the at least one gesture is interpreted in another of the plurality of regions.	

35. A method of remotely controlling a home entertainment device as in claim 29 further comprising interpreting at least one gesture on the touch pad based on at least one parameter programmed by a user of the system.

36.

2	as in claim 29 further comprising adapting the operation of the touch pad to at least
3	one operator idiosyncrasy.
1	37. A method of remotely controlling/a home entertainment device
2	as in claim 29 further comprising varying the functioning of the touch pad to fit each
3	of a plurality of games.
1	38. A method of remotely controlling a home entertainment device
2	as in claim 29 further comprising learning at least one gesture associated with the
3	game taught by a user of the touch pad.
1	39. A method of remotely/controlling a home entertainment device
2	as in claim 29 further comprising associating at least one gesture with a particular
3	user of the system.
1	40. A method of remotely controlling a home entertainment device
2	as in claim 29 further comprising recognizing at least one of a plurality of gestures
3	on the touch pad as representing simple linear movement.
1	41. A method of remotely controlling a home entertainment device
2	as in claim 29 further comprising recognizing at least one of a plurality of gestures
3	on the touch pad as representing free floating input.
1	42. A method of remotely controlling a home entertainment device
2	as in claim 29 further comprising recognizing at least one of a plurality of gestures
3	on the touch pad as representing pad-to-screen mapping.
1	43. A method of remotely controlling a home entertainment device
2	as in claim 29 further comprising recognizing at least one of a plurality of gestures
3	on the touch pad as representing a pressure sensitive gesture.

A method of remotely controlling a home entertainment device

1	44.	A method of remotely controlling a home entertainment device
2	as in claim 29 further	r comprising recognizing at least one of a plurality of gestures
3	on the touch pad as a	representing a rotational control gesture.

- 45. A method of remotely controlling a home entertainment device as in claim 29 further comprising recognizing at least one of a plurality of gestures on the touch pad as representing a velocity control gesture.
- 46. A method of remotely controlling a home entertainment device as in claim 29 further comprising recognizing at least one of a plurality of gestures on the touch pad as representing an acceleration control gesture.
- 47. A method of remotely controlling a home entertainment device as in claim 29 further comprising recognizing at least one of a plurality of gestures on the touch pad as representing an alphanumeric character entry gesture.
- 48. A method of remotely controlling a home entertainment device as in claim 29 further comprising recognizing at least one of a plurality of gestures on the touch pad as representing a complex gesture, the complex gesture having at least two elements from a set consisting of straight line movements, taps, holds and circular movements.